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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/683,728	10/09/2003	Wei Sun	03226.475001; P8956	1630
32615	7590	04/09/2007		
OSHA LIANG L.L.P./SUN 1221 MCKINNEY, SUITE 2800 HOUSTON, TX 77010			EXAMINER OKORONKWO, CHINWENDU C	
			ART UNIT	PAPER NUMBER
			2136	

SHORTENED STATUTORY PERIOD OF RESPONSE	MAIL DATE	DELIVERY MODE
3 MONTHS	04/09/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

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Office Action Summary	Application No.	Applicant(s)	
	10/683,728	SUN ET AL.	
	Examiner	Art Unit	
	Chinwendu C. Okoronkwo	2136	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 09 October 2003.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-26 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-26 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 09 October 2003 is/are: a) ☐ accepted or b) ☒ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413) |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | Paper No(s)/Mail Date. _____ |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08) | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

Priority

1. For the record, the Examiner acknowledges that no priority claim has been made in regards to this application.

Information Disclosure Statement

2. For the record, the Examiner acknowledges that no IDS has yet to have been received with this application submitted on 10/09/2003.

Oath/Declaration

3. For the record, the Examiner acknowledges that the Oath/Declaration submitted on 10/09/2003 has been received and considered.

Drawings

4. For the record, the Examiner acknowledges that the drawings submitted on 10/09/2003 have been received and considered, however Figures 2 and 5 are objected to.

The drawings are objected to because Figures 2 and 5 do not meet Office requirements with regards to quality and margin spacing. Corrected drawing sheets in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. Any amended replacement drawing sheet should

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include all of the figures appearing on the immediate prior version of the sheet, even if only one figure is being amended. The figure or figure number of an amended drawing should not be labeled as "amended." If a drawing figure is to be canceled, the appropriate figure must be removed from the replacement sheet, and where necessary, the remaining figures must be renumbered and appropriate changes made to the brief description of the several views of the drawings for consistency. Additional replacement sheets may be necessary to show the renumbering of the remaining figures. Each drawing sheet submitted after the filing date of an application must be labeled in the top margin as either "Replacement Sheet" or "New Sheet" pursuant to 37 CFR 1.121(d). If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

Specification

5. For the record, the Examiner acknowledges that the Specification submitted on 10/09/2003 has been received and considered.
6. Pursuant to USC 131, claims 1-26 are presented for examination.
7. Claims 1-26 are pending.

Claim Rejections - 35 USC § 102

8. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

1-5, 7-15 & 17-26

Claims _____ are rejected under 35 U.S.C. 102(e) as being disclosed by Cheng et al. (U.S. Patent No. 7,010,582 B1).

Regarding claim 1, Cheng et al., discloses a method of performing single sign-on services for a network of trusted partner sites comprising:

- a) generating assertion information comprising identity information associated with a user that is authorized to sign on to said network, each of said network of trusted partner sites communicatively coupled together through a communication network (col. 2 lines 11-35);
- b) generating a plurality of artifacts that are associated with said assertion information (col. 1 lines 46-60);
- c) sending said plurality of artifacts to a group of trusted partner sites of said network in order to facilitate single sign-on capabilities of said network, wherein each of said artifacts allows access to said assertion information so that each of

said group of trusted partner sites can individually authorize access by said user.
(col. 2 lines 55-67 and col. 3 lines 1-15).

Regarding claim 2, Cheng et al., discloses the method as described in Claim i, wherein said a) further comprises: receiving a sign-on request from said user, retrieving said identity information associated with said user to authenticate said user and authorizing said user access to said network when said user is authenticated (col. 2 lines 11-35).

Regarding claim 3, Cheng et al., discloses the method as described in Claim i, further comprising:

d) receiving a first artifact of said plurality of artifacts through said communication network from a first trusted partner site, said group of trusted partner sites including said first trusted partner site (col. 3 lines 16-39);
e) authenticating said first artifact to said first trusted partner site (col. 3 lines 16-39); and
f) sending said assertion information to said first trusted partner site, transparently to said user, to enable said first trusted partner site to authenticate said user and authorize access to said first trusted partner site by said user (col. 3 lines 40-67).

Regarding claim 4, Cheng et al., discloses the method as described in Claim I,

further comprising:

- d) receiving a first artifact of said plurality of artifacts through said communication network from a first trusted partner site not from said group of trusted partner sites, wherein said first trusted partner site received said' first artifact from one of said group of trusted partner sites (col. 3 lines 16-39);
- e) authenticating said first artifact (col. 3 lines 16-39);
- f) authenticating said first artifact; and sending said assertion information to said first trusted partner site, transparently to said user, to enable said first trusted partner site to authenticate said user and authorize access to said first trusted partner site by said user (col. 3 lines 40-67).

Regarding claim 5, Cheng et al., discloses the method as described in Claim i, further comprising:

- d) receiving other assertion information from a first trusted partner site of said network of trusted partner sites, said assertion information comprising data (col. 2 lines 11-35);
- e) storing said other assertion information (col. 1 lines 30-36);
- f) generating another artifact associated with said other assertiOn information (col. 1 lines 46-60); and
- g) sending said another artifact to a second trusted partner site as directed by said first trusted partner site to facilitate a transfer of said data from said first

trusted partner site to said second trusted partner site, wherein said another artifact allows access to said other assertion information (col. 2 lines 55-67 and col. 3 lines 1-15).

Regarding claim 7, Cheng et al., discloses the method as described in Claim I, wherein said a) further comprises: sending said plurality of artifacts to a first trusted partner site of said group of trusted partner sites as directed by said user (col. 2 lines 55-67 and col. 3 lines 1-15).

Regarding claim 8, Cheng et al., discloses the method as described in Claim I, wherein said a) further comprises: sending said plurality of artifacts to a first trusted partner site of said group of trusted partner sites as directed by a second trusted partner site of said group of trusted partner site authorized access to said assertion information (col. 2 lines 55-67 and col. 3 lines 1-15).

Regarding claim 9, Cheng et al., discloses the method as described in Claim I, wherein said c) further comprises: tagging each of said plurality of artifacts for use solely by a corresponding trusted partner site in said group of trusted partner sites (col. 9 lines 37-60).

Regarding claim 10, Cheng et al., discloses the method as described in Claim I, further comprising: d) expiring a first artifact after use of said first artifact by a

trusted partner site to retrieve said assertion information (col. 6 lines 54-67 and col. 7 lines 1-21).

Regarding claim 11, Cheng et al., discloses the method of performing single sign-on services for a network of trusted partner sites comprising:

- a) receiving a first artifact at a first trusted partner site from a central service provider, said central service provider providing single sign-on access to said network of trusted partner sites, said first artifact associated with assertion information comprising identity information associated with a user, said user desiring access to said first trusted partner site, each of said network of trusted partner sites and said central service provider communicatively coupled through a communication network (col. 2 lines 11-35);
- b) sending said first artifact to said central service provider over said communication network to retrieve said assertion information (col. 1 lines 46-60);
- c) receiving said assertion information from said central service provider at said first trusted partner site over said communication network (col. 2 lines 55-67 and col. 3 lines 1-15); and
- d) determining authorization for said user to access said first trusted partner site based on said assertion information (col. 3 lines 16-39).

Regarding claim 12, Cheng et al., discloses the method as described in Claim ii, further comprising: receiving a second artifact at a second trusted partner site

from said central service provider, said user desiring access to said second trusted partner site, said second artifact associated with said assertion information, sending said second artifact to said central service provider over said communication network to retrieve said assertion information, receiving said assertion information from said central service provider at said second trusted partner site over said communication network and determining authorization for said user to access said second trusted partner site based on said assertion information (col. 4 lines 60-67 and col. 5 lines 1-15).

Regarding claim 13, Cheng et al., discloses the method as described in Claim 11, wherein said central service provider previously authorizing said user to sign-on to said network of trusted partner sites, said central service provider generating and storing said assertion information (col. 2 lines 11-35).

Regarding claim 14, Cheng et al., discloses the method as described in Claim 11, wherein said a) further comprises: said receiving said first artifact at said first trusted partner site from said central service provider at a direction by a second trusted partner site authorized access to said assertion information (col. 2 lines 11-35).

Regarding claim 15, Cheng et al., discloses the method as described in Claim 11, further comprising sending said first artifact to a second trusted partner site to

facilitate access by said user to said second trusted partner site (col. 6 lines 49-64).

Regarding claim 17, Cheng et al., discloses the method as described in Claim ii, further comprising: bypassing said b) and said c) by sending said first artifact to an assertion manager controlling access to said assertion information for internal access to said assertion information when said first trusted partner site is co-located with said central service provider on a web container; and
f) receiving said assertion information from said assertion manager at said first trusted partner site (col. 5 lines 50-67 and col. 6 lines 1-2).

Regarding claim 18, Cheng et al., discloses a processor; and
a computer readable memory coupled to said processor and containing program instructions that, when execute, implement a method of performing single sign-on services for a network of trusted partner sites comprising: generating assertion information comprising identity information associated with a user that is authorized to sign on to said network, each of said network of trusted partner sites communicatively coupled together through a communication network, generating a plurality of artifacts that are associated with said assertion information, sending said plurality of artifacts to a group of trusted partner sites of said network in order to facilitate single sign-on capabilities of said network, wherein each of said artifacts allows access to said assertion information so that

each of said group of trusted partner sites can individually authorize access by said user (Rejected under the same rationale as claim 1 and col. 4 lines 20-27).

Regarding claim 19, Cheng et al., discloses the computer system as described in Claim 18, wherein said a) in said method further comprises:

al) receiving a sign-on request from said user, retrieving said identity information associated with said user to authenticate said user and authorizing said user access to said network when said user is authenticated (Rejected under the same rationale as claim 2 and col. 4 lines 20-27).

Regarding claim 20, Cheng et al., discloses the computer system as described in Claim 18, wherein said method further comprises: d) receiving a first artifact of said plurality of artifacts through said communication from a first trusted partner site, said group of trusted partner sites including said first trusted partner site, e) authenticating said first artifact to said first trusted partner site; and f) sending said assertion information to said first trusted partner site, transparently to said user to enable said first trusted partner site to authenticate said user and authorize access to said first trusted partner site by said user (Rejected under the same rationale as claim 3 and col. 4 lines 20-27)

Regarding claim 21, Cheng et al., discloses the computer system as described in Claim 18, wherein said method further comprises: receiving a first artifact of said

plurality of artifacts through said communication network from a first trusted partner site not from said group of trusted partner sites, wherein said first trusted partner site received said first artifact from one of said group of trusted partner sites, authenticating said first artifact, authenticating said first artifact; and sending said assertion information to said first trusted partner site, transparently to said user, to enable said first trusted partner site to authenticate said user and authorize access to said first trusted partner site by said user (Rejected under the same rationale as claim 4 and col. 4 lines 20-27).

Regarding claim 22, Cheng et al., discloses the compute system as described in Claim 18, wherein said method further comprises: receiving other assertion information from a first trusted partner site of said network of trusted partner sites, said assertion information comprising data, storing said other assertion information, generating another artifact associated with said other assertion information and sending said another artifact to a second trusted partner site as directed by said first trusted partner site to facilitate a transfer of said data from said first trusted partner site to said second trusted partner site, wherein said another artifact allows access to said other assertion information (Rejected under the same rationale as claim 5 and col. 4 lines 20-27).

Regarding claim 24, Cheng et al., discloses a computer system as described in Claim 18, wherein said a) in said method further comprises: sending said plurality

of artifacts to a first trusted partner site of said group of trusted partner sites as directed by a second trusted partner site of said group of trusted partner site authorized access to said assertion information (Rejected under the same rationale as claim 1 and col. 4 lines 20-27).

Regarding claim 25, Cheng et al., discloses the computer system as described in Claim 18, wherein said c) in said method further comprises: tagging each of said plurality of artifacts for use solely by a corresponding trusted partner site in said group of trusted partner sites (Rejected under the same rationale as claim 9 and col. 4 lines 20-27).

Regarding claim 26, Cheng et al., discloses the computer system as described in Claim 18, wherein said method further comprises: expiring a first artifact after use of said first artifact by a trusted partner site to retrieve said assertion information (Rejected under the same rationale as claim 10 and col. 4 lines 20-27).

Claim Rejections - 35 USC § 103

2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

Claims 6, 16 and 23 are rejected under 35 U.S.C. 103(a) as being unpatentable over Cheng et al. and further in view of Botz et al. (US 2003/0177388 A1).

Cheng et al. is silent in disclosing the method as described in Claim I, wherein said assertion information and said plurality of artifacts substantially comply with a Security Assertions Markup Language (SAML) standard, and said network of trusted partner sites facilitates web browser single sign-on capabilities using interoperational protocols substantially complying with said SAML standard, however Botz et al. does disclose such a method (0066 of Botz et al.).

It would have been obvious for one of ordinary skill in the art, at the time of the invention, they have been motivated to combine the system and method for providing interactions between multiple servers and an end user with the authentication identity translation within a multiple computing unit environment of Botz et al. Cheng hints towards the possible benefit of such a combination in the recitation of the need for a "some standard data format should be agreed upon to pass the information from site to site. Furthermore, preferably this passing of confidential information should be done in a secure fashion, by using some sort of cryptographic means for example (col. 11 lines 47-52)." Botz et al. provides motivation for the combination in the description of, "the emerging web services computing model, [in which] the various AIT logical processes e.g., Domain Controller and interface services could be implemented as published and

subscribed to web accessible services. Likewise, ITTs and ITTRs could be stored as published XML documents which could be further implemented using the Security Assertion Markup Language (SAML), which is a proposed standard.” Clearly there is motivation and benefit to modify the invention of Cheng towards compliance with a technology, namely SAML which is a proposed standard.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Chinwendu C. Okoronkwo whose telephone number is (571) 272 2662. The examiner can normally be reached on MWF 9:30 - 7:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner’s supervisor, Nasser Moazzami can be reached on (571) 272 4195. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.


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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.


CCO

March 30, 2007

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3,31,07